Figure 1A

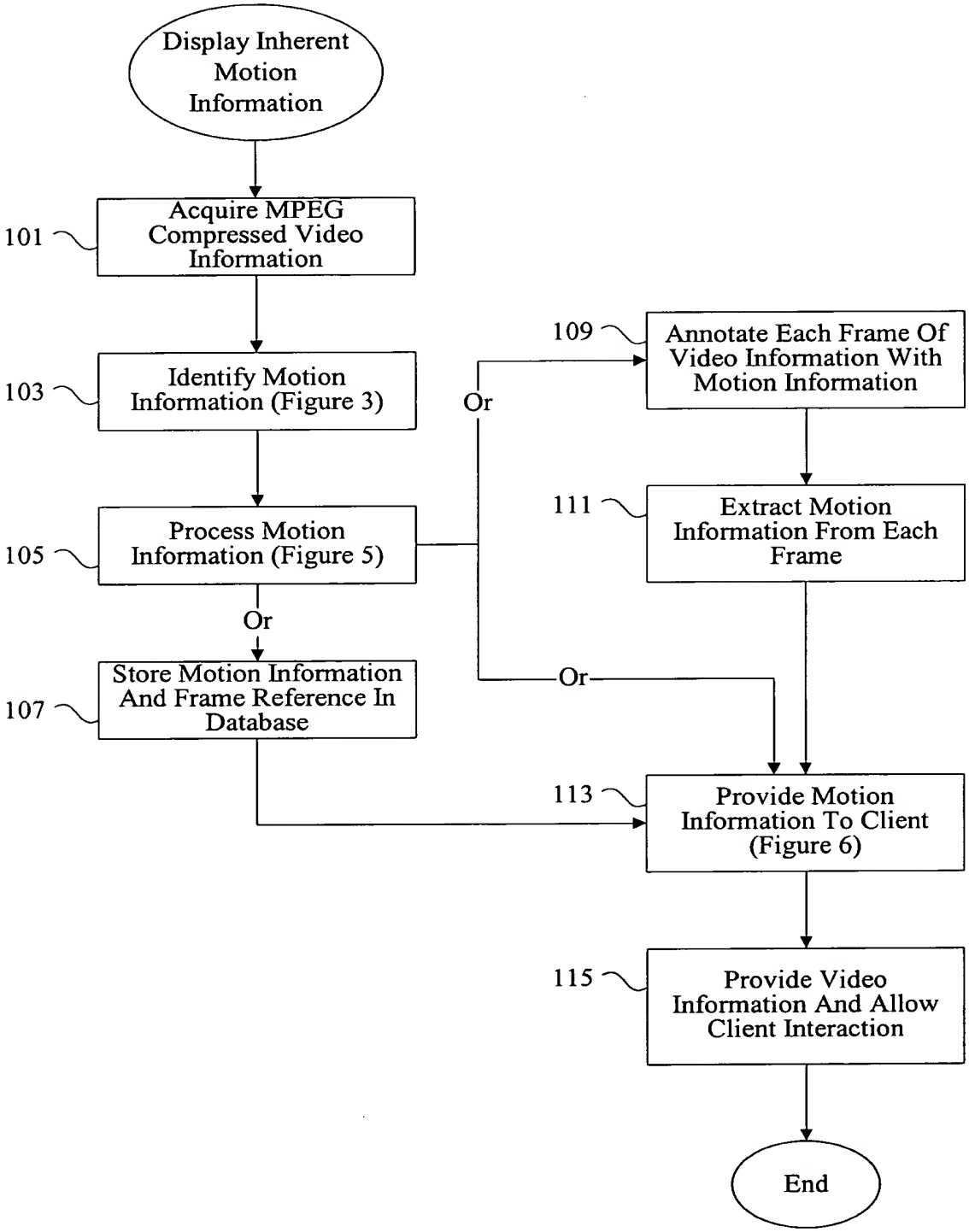
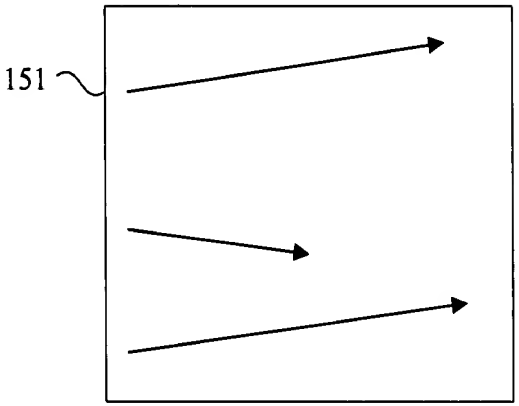
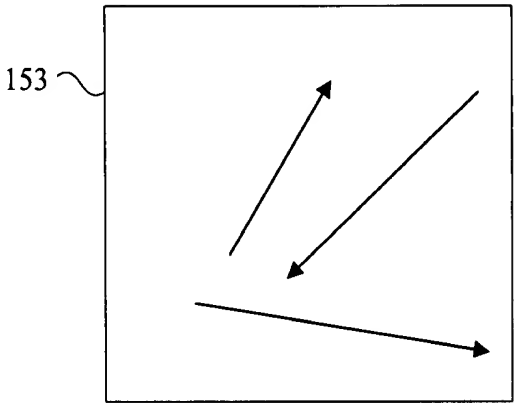

Display Inherent Motion Information
101
Acquire MPEG Compressed Video Information
103
Identify Motion Information (Figure 3)
105
Process Motion Information (Figure 5)
Or
107
Store Motion Information And Frame Reference In Database
Or
109
Annotate Each Frame Of Video Information With Motion Information
111
Extract Motion Information From Each Frame
Or
113
Provide Motion Information To Client (Figure 6)
115
Provide Video Information And Allow Client Interaction
End

Figure 1B





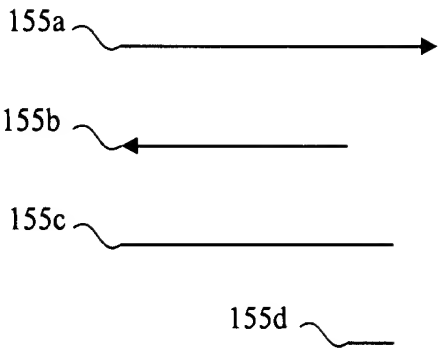


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Figure 2

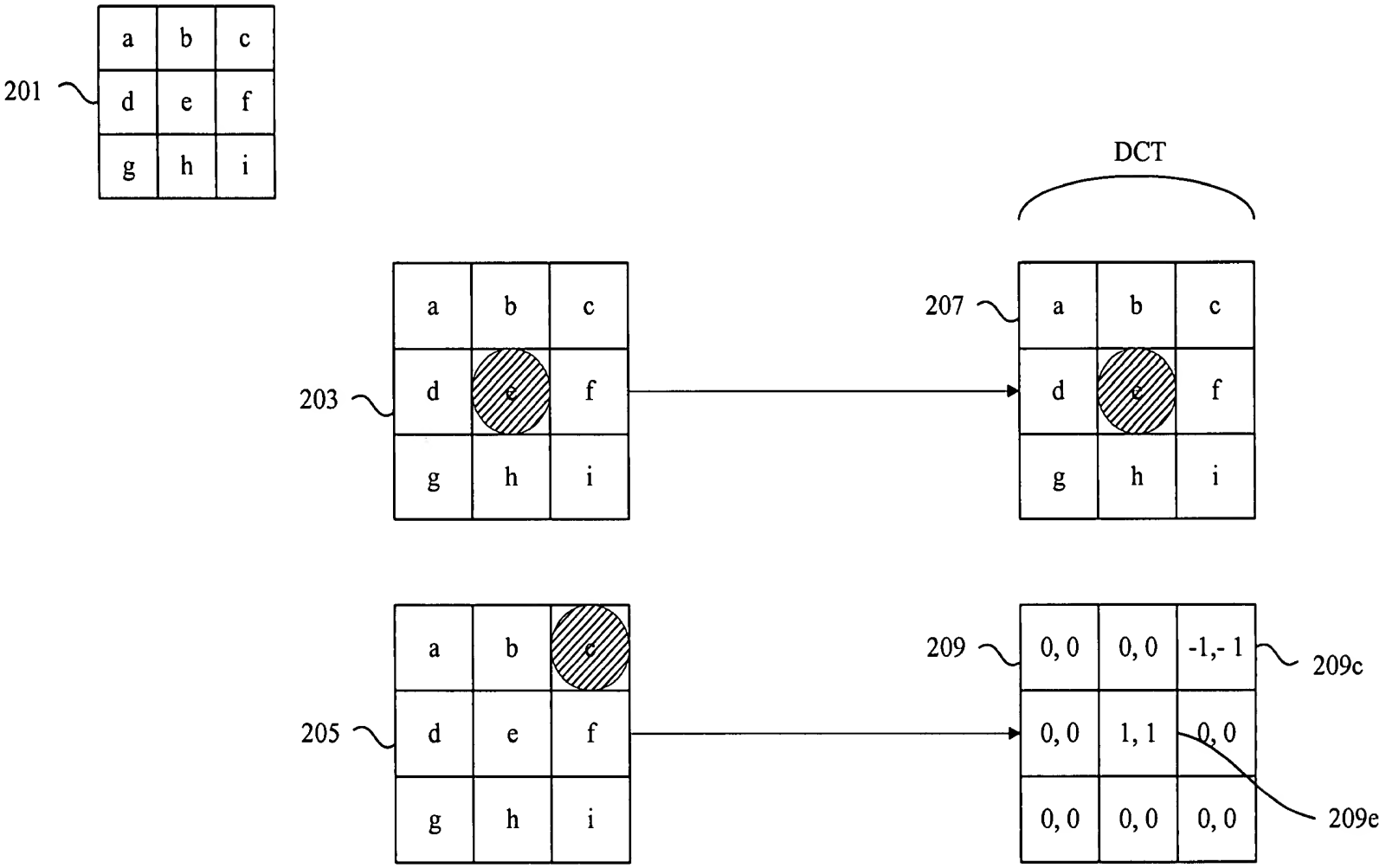


Figure 3

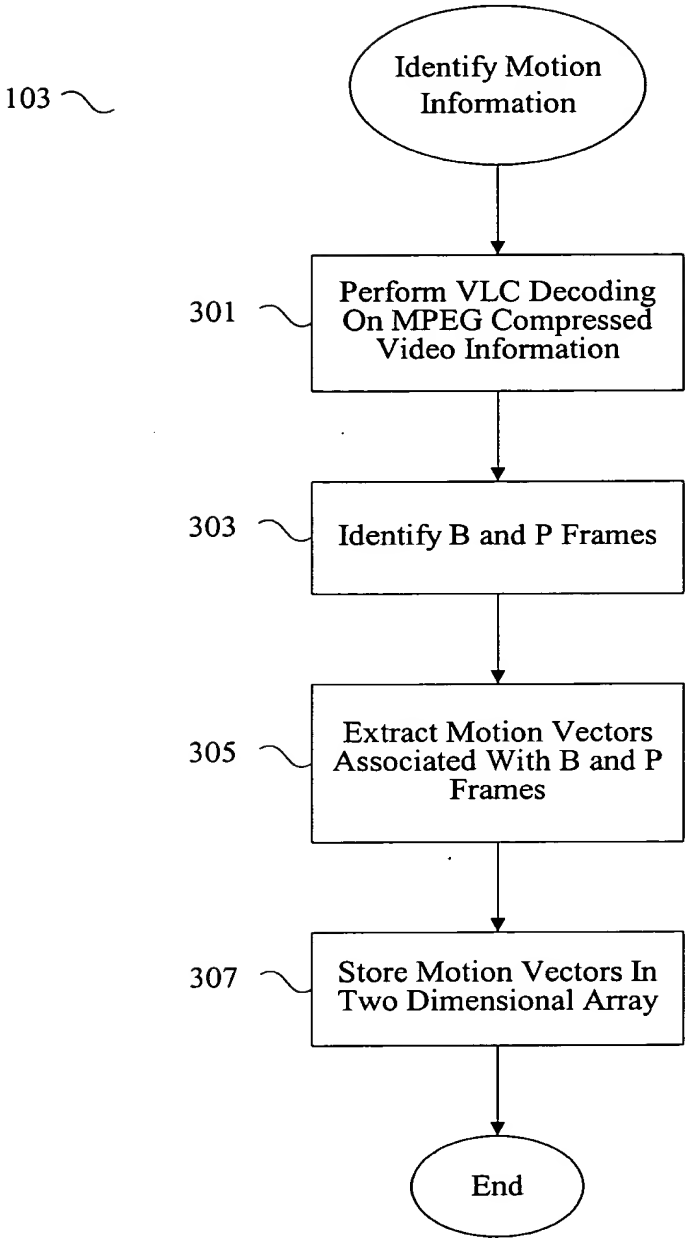
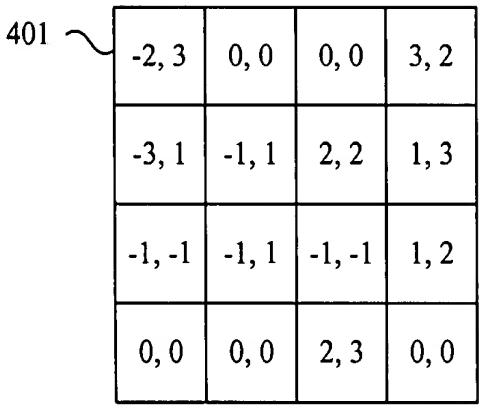
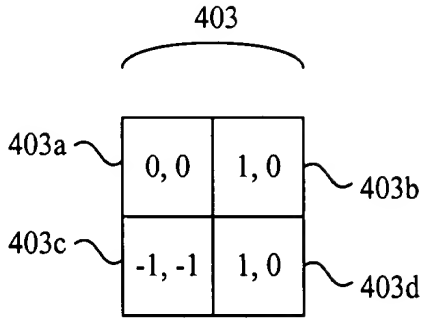
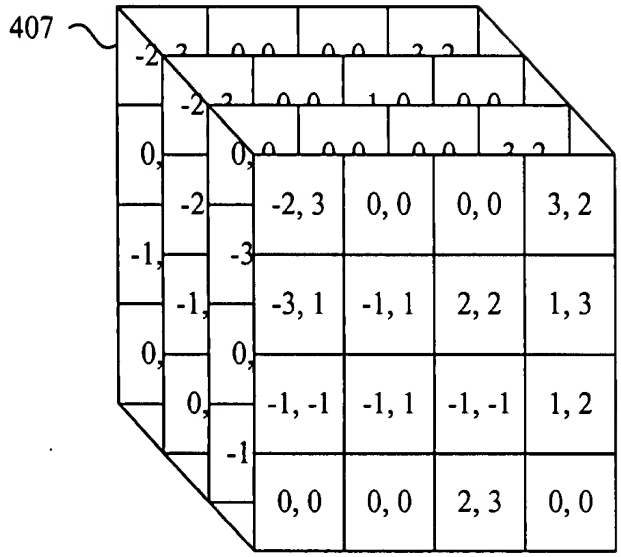

103
Identify Motion Information
301
Perform VLC Decoding On MPEG Compressed Video Information
303
Identify B and P Frames
305
Extract Motion Vectors Associated With B and P Frames
307
Store Motion Vectors In Two Dimensional Array
End

Figure 4


401
-2, 3
0, 0
0, 0
3, 2
-3, 1
-1, 1
2, 2
1, 3
-1, -1
-1, 1
-1, -1
1, 2
0, 0
0, 0
2, 3
0, 0


403
403a
0, 0
1, 0
403b
403c
-1, -1
1, 0
403d


407
-2, 3
0, 0
0, 0
3, 2
-3, 1
-1, 1
2, 2
1, 3
-1, -1
-1, 1
-1, -1
1, 2
0, 0
0, 0
2, 3
0, 0

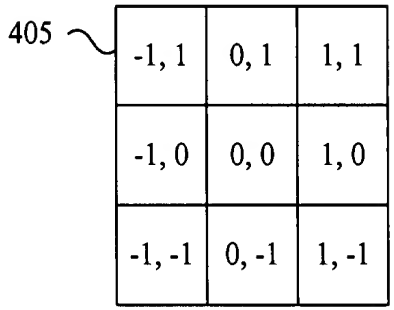

405
-1, 1
0, 1
1, 1
-1, 0
0, 0
1, 0
-1, -1
0, -1
1, -1

Figure 5

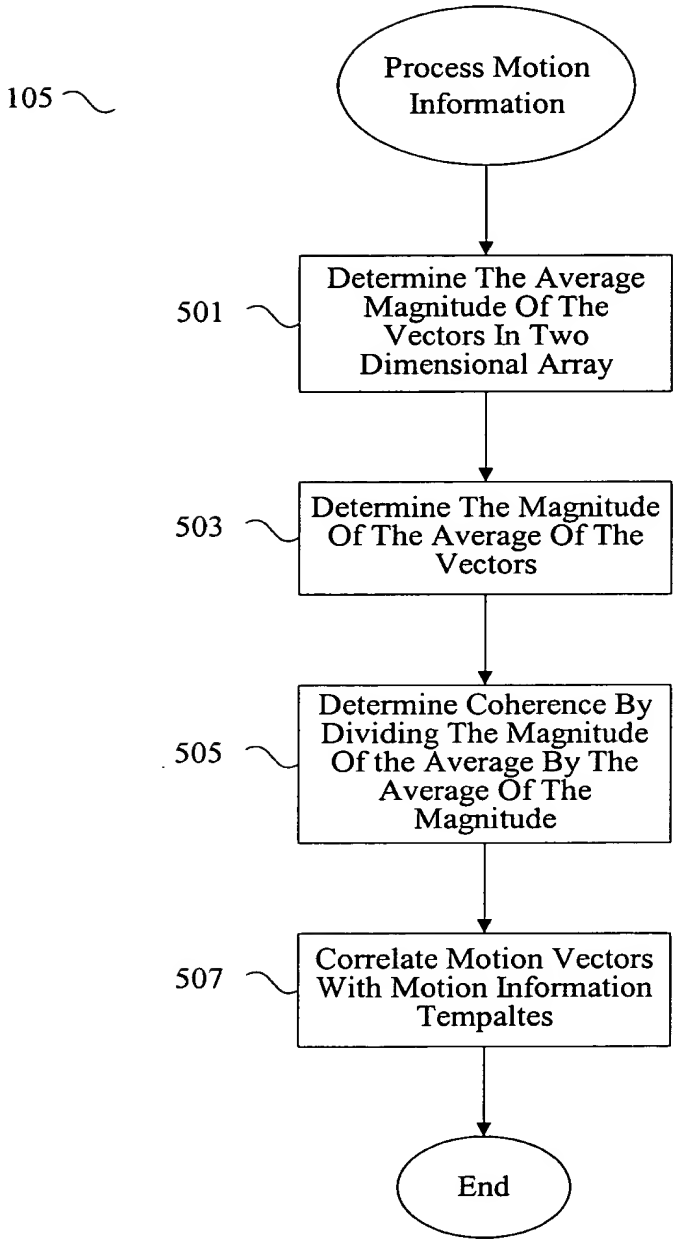


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Figure 6

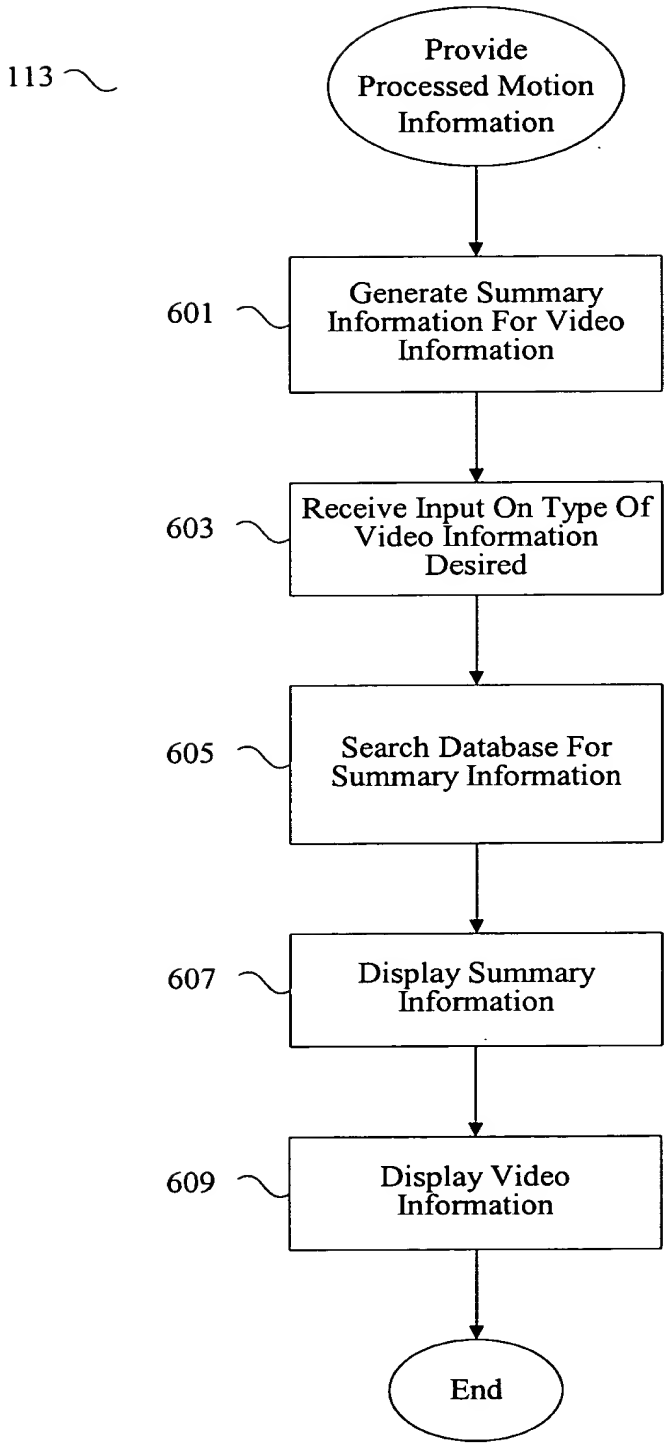
113
Provide Processed Motion Information
601
Generate Summary Information For Video Information
603
Receive Input On Type Of Video Information Desired
605
Search Database For Summary Information
607
Display Summary Information
609
Display Video Information
End

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Figure 7

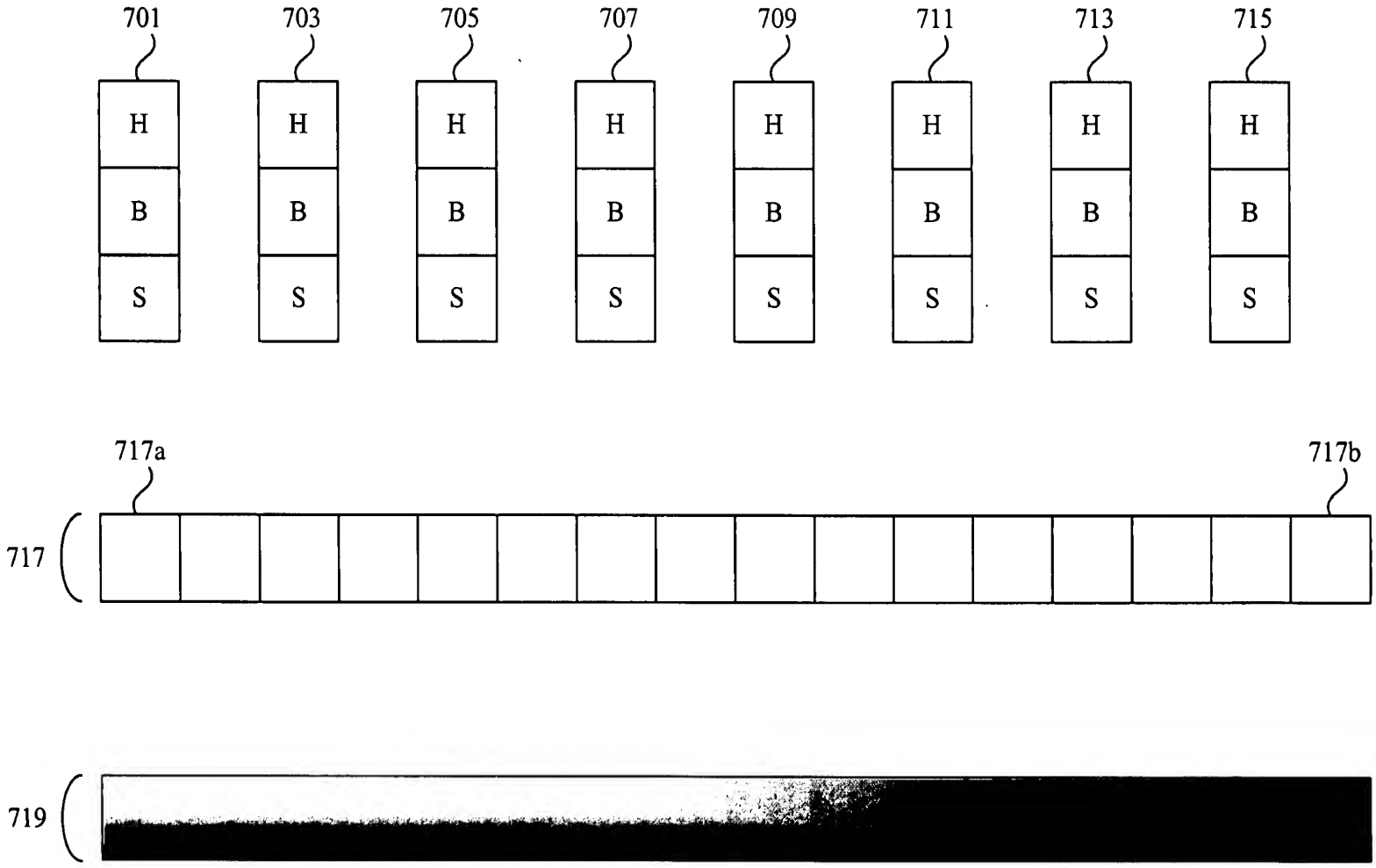

Figure 8

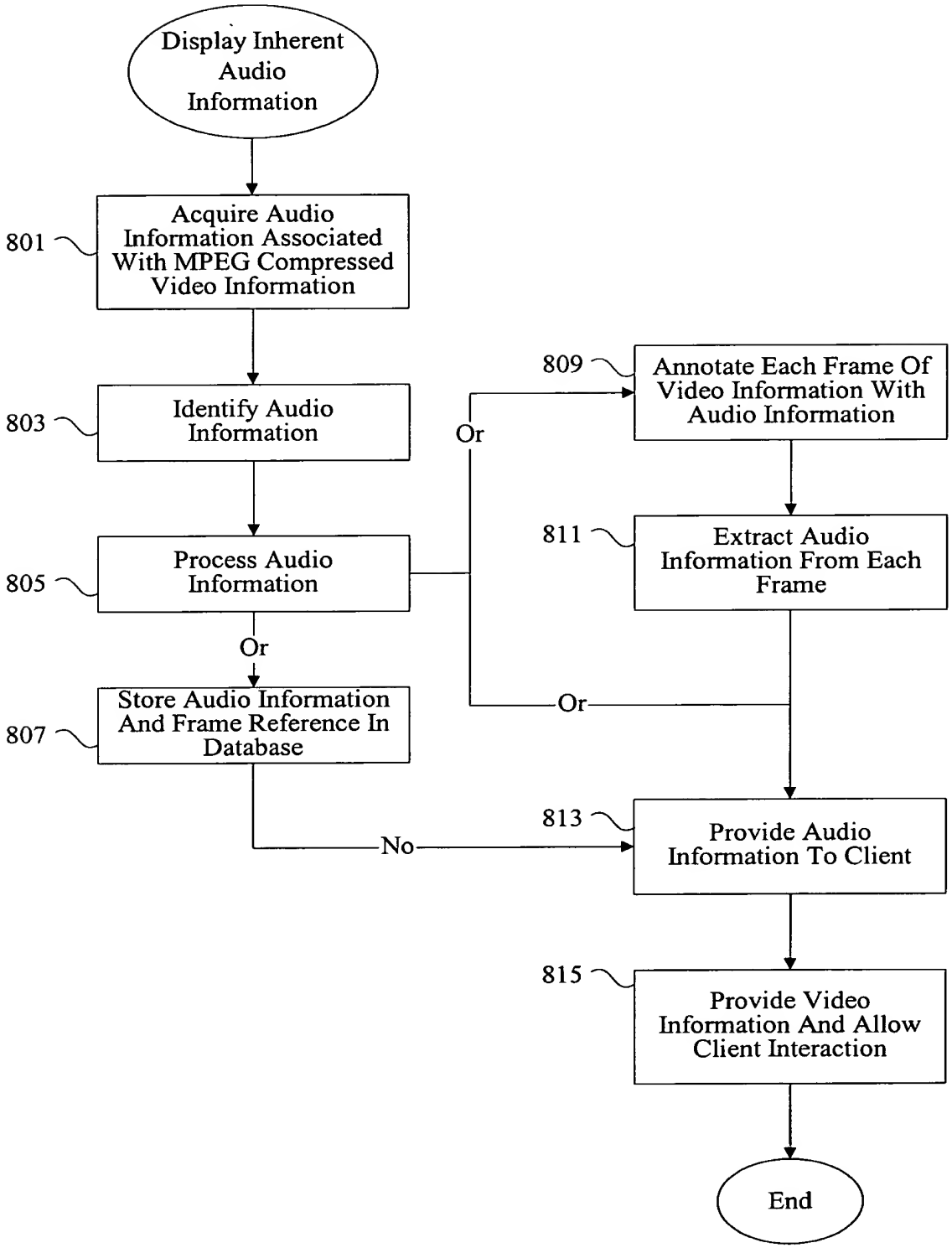
Display Inherent Audio Information
801
Acquire Audio Information Associated With MPEG Compressed Video Information
803
Identify Audio Information
805
Process Audio Information
Or
807
Store Audio Information And Frame Reference In Database
Or
809
Annotate Each Frame Of Video Information With Audio Information
811
Extract Audio Information From Each Frame
Or
No
813
Provide Audio Information To Client
815
Provide Video Information And Allow Client Interaction
End

Figure 9

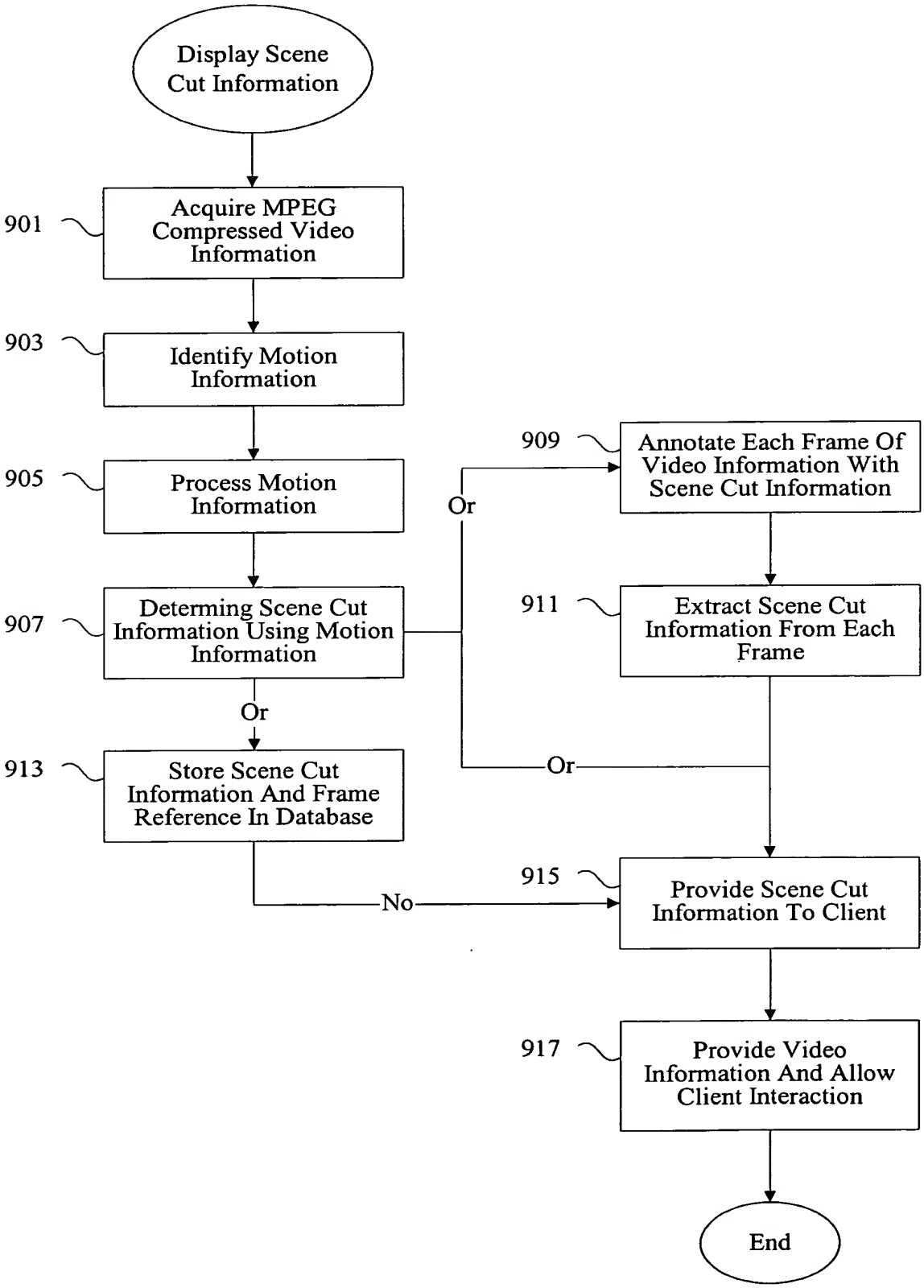
Display Scene Cut Information
901
Acquire MPEG Compressed Video Information
903
Identify Motion Information
905
Process Motion Information
907
Determing Scene Cut Information Using Motion Information
Or
913
Store Scene Cut Information And Frame Reference In Database
No
Or
909
Annotate Each Frame Of Video Information With Scene Cut Information
911
Extract Scene Cut Information From Each Frame
Or
915
Provide Scene Cut Information To Client
917
Provide Video Information And Allow Client Interaction
End

Figure 10

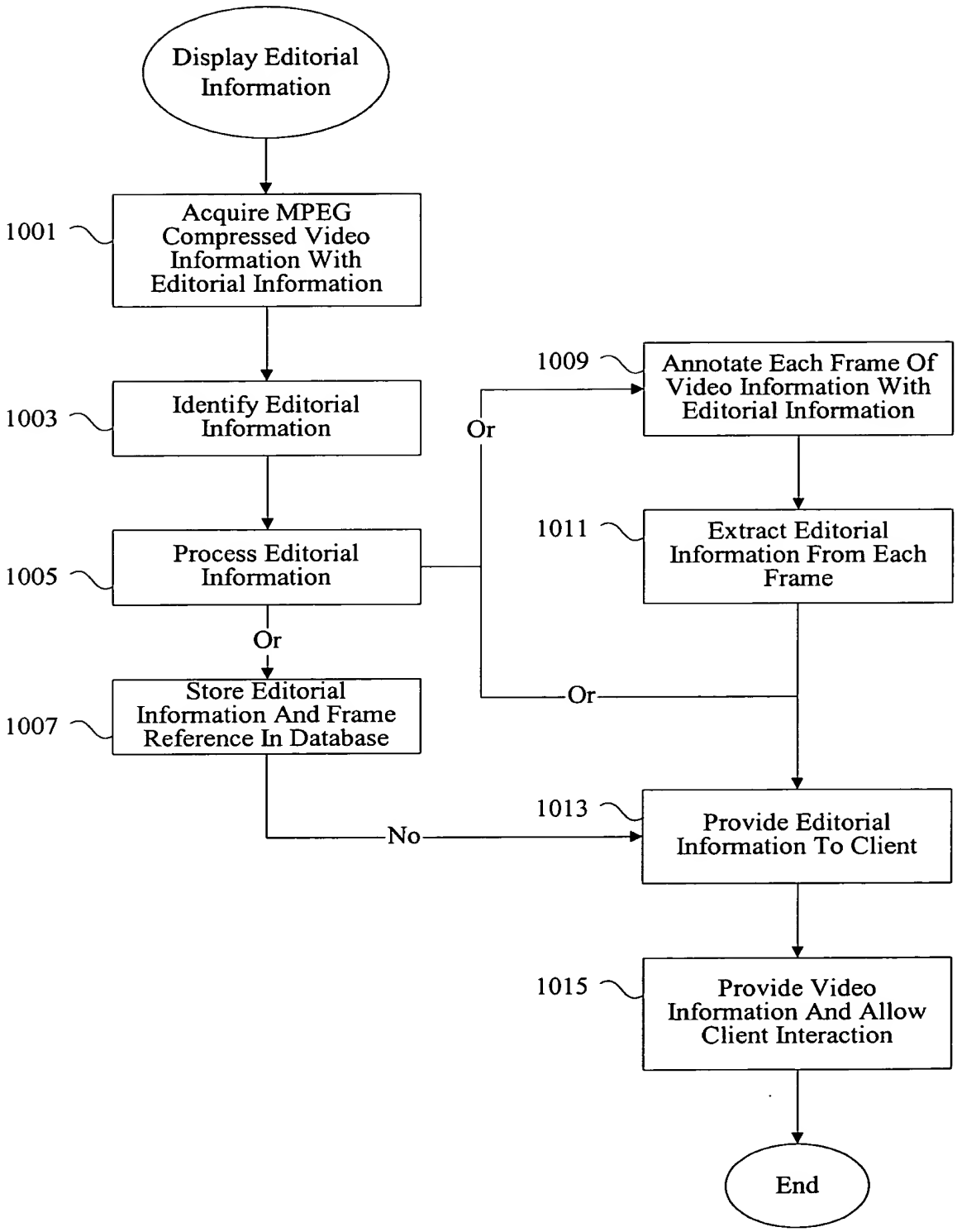
Display Editorial Information
1001
Acquire MPEG Compressed Video Information With Editorial Information
1003
Identify Editorial Information
1005
Process Editorial Information
Or
1007
Store Editorial Information And Frame Reference In Database
Or
1009
Annotate Each Frame Of Video Information With Editorial Information
1011
Extract Editorial Information From Each Frame
Or
No
1013
Provide Editorial Information To Client
1015
Provide Video Information And Allow Client Interaction
End

Figure 11

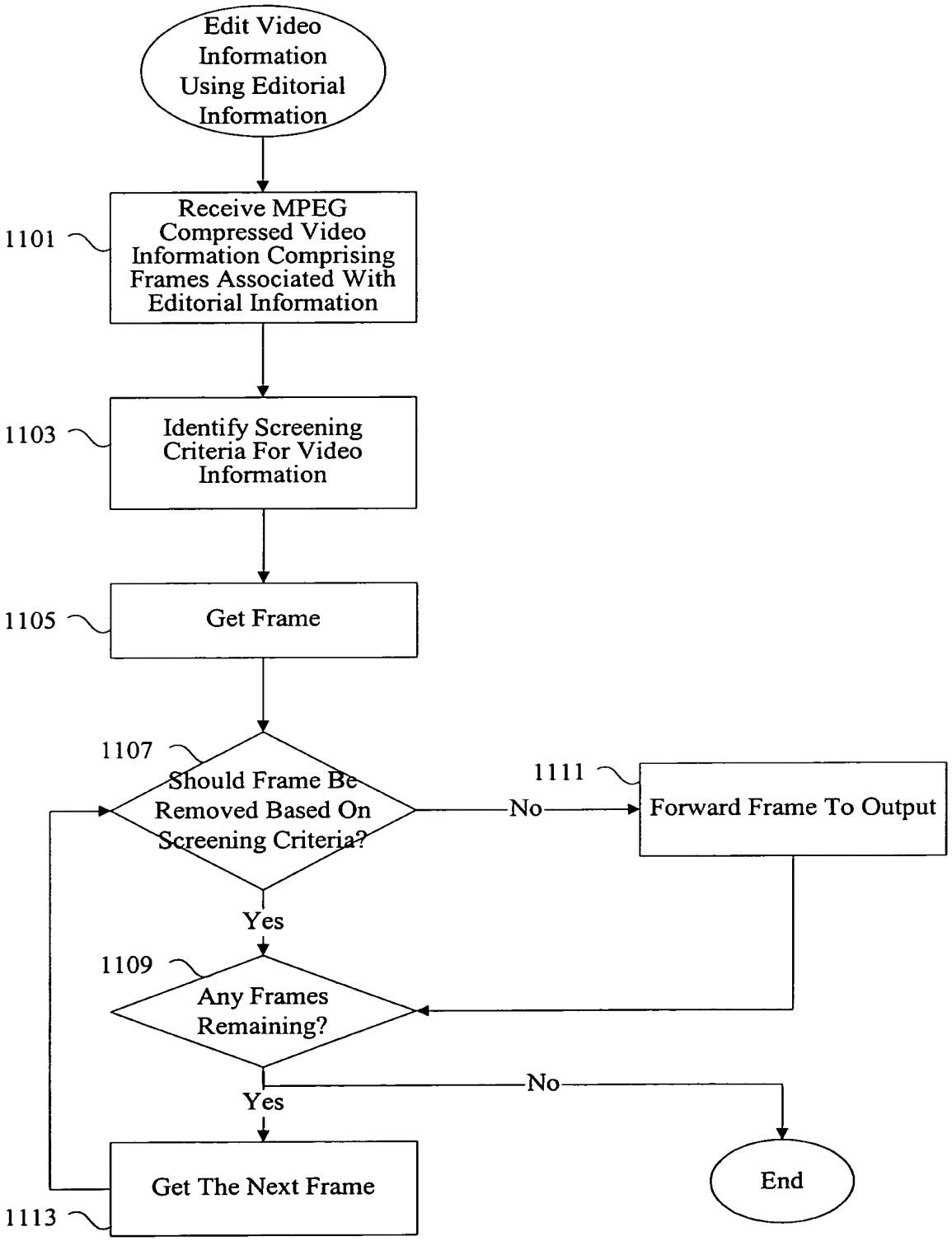
Edit Video Information Using Editorial Information
1101
Receive MPEG Compressed Video Information Comprising Frames Associated With Editorial Information
1103
Identify Screening Criteria For Video Information
1105
Get Frame
1107
Should Frame Be Removed Based On Screening Criteria?
No
1111
Forward Frame To Output
Yes
1109
Any Frames Remaining?
No
Yes
Get The Next Frame
1113
End

Figure 12A

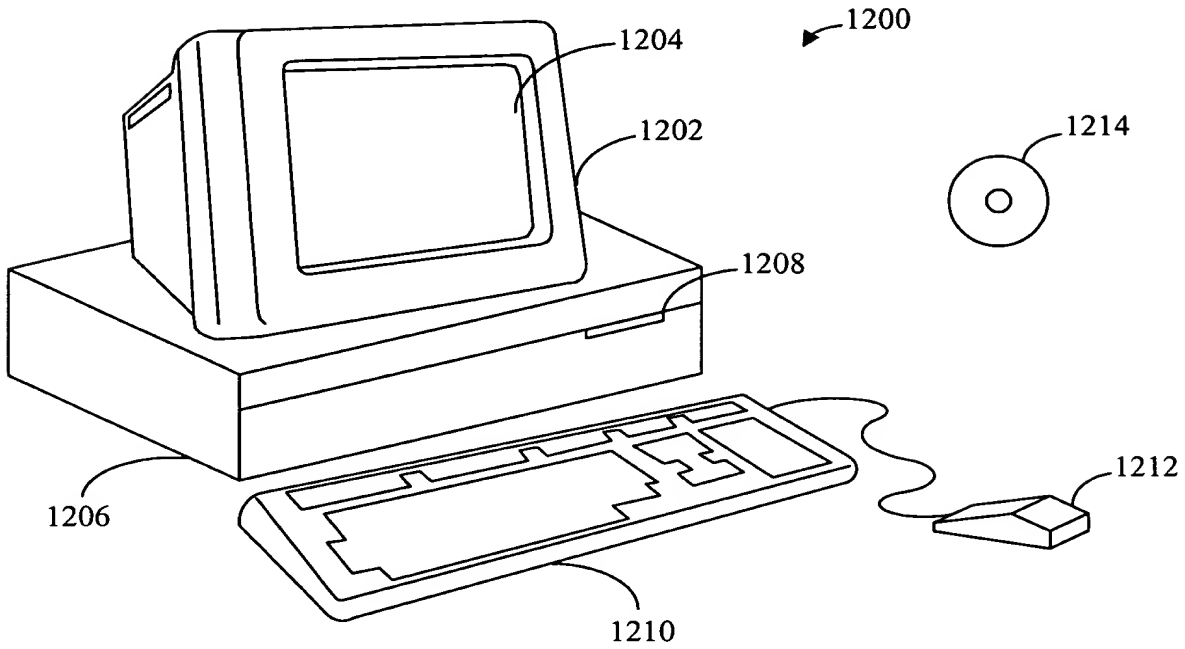
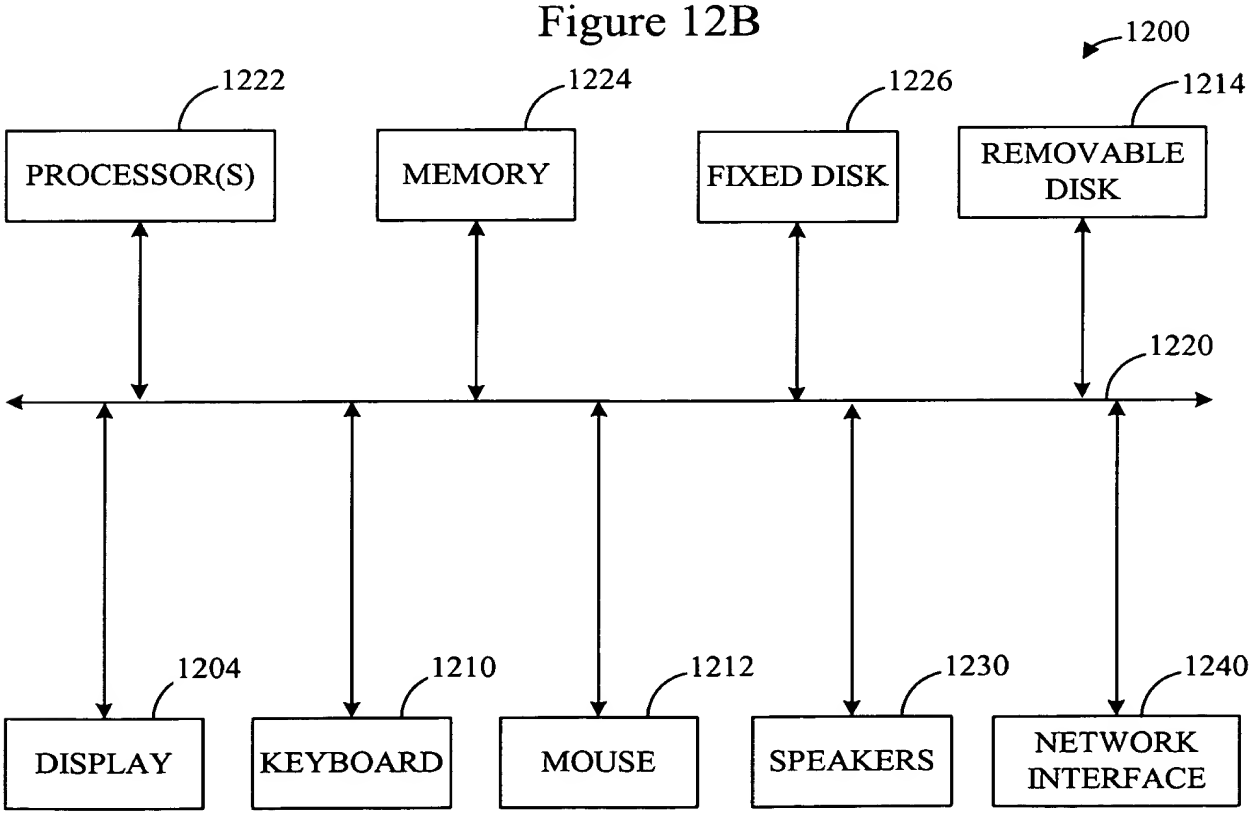
Figure 12B